

# Claims

- [c1] A gas turbine arrangement (1) comprising: a gas turbine (2); a generator (3); a gearbox (4) connected to an output shaft (5) from the gas turbine (2) and an input shaft (6) to the generator (3); and a starter motor (7) connected to an output shaft (8) from the generator (3).
- [c2] The gas turbine arrangement as recited in claim 1, further comprising: a coupling device (9, 34) between the generator and the starter motor configured for coupling-in, and uncoupling the starter motor (7).
- [c3] The gas turbine arrangement as recited in claim 2, wherein the coupling device (9, 34) has a capacity for automatic uncoupling.
- [c4] The gas turbine arrangement as recited in claim 2, further comprising: a gearwheel transmission arranged between the starter motor (7) and the output shaft (8) from the generator (3); the coupling device (9) comprising a first (12) gearwheel in the transmission that is axially displaceable relative to a second gearwheel, said first and second gearwheels being engageable with one another.
- [c5] The gas turbine arrangement as recited in claim 2, wherein the coupling device (9, 34) consists of a clutch (34).
- [c6] The gas turbine arrangement as recited in claim 1, wherein the starter motor (7) is connected to the output shaft (8) of the generator (3) via a chain transmission.
- [c7] The gas turbine arrangement as recited in claim 1, wherein the starter motor (7) is connected to the output shaft (8) of the generator (3) via a belt transmission (35).

- [c8] The gas turbine arrangement as recited in claim 1, wherein the speed of the starter motor (7) is adjustable.
- [c9] The gas turbine arrangement as recited in claim 1, further comprising: at least one auxiliary apparatus (41) which, for driving, is connected to an external energy source (42).
- [c10] The gas turbine arrangement as recited in claim 1, wherein the gearbox (4) consists of a planetary gearbox.
- [c11] The gas turbine arrangement as recited in claim 10, further comprising: at least one auxiliary apparatus (30) which, for driving, is connected to a planet wheel shaft (24) of the planetary gearbox (4).
- [c12] The gas turbine arrangement as recited in claim 1, further comprising: at least one auxiliary apparatus (43) which, for driving, is connected to the output shaft from the generator.
- [c13] The gas turbine arrangement as recited in claim 1, wherein the gas turbine arrangement (1) is a stationary arrangement for electricity production.